

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently amended): A portable data storage[[/]]_and_ audio reproduction apparatus comprising:

a power supply for ~~converting input AC power into a desired level of DC power, rectifying the converted DC power and supplying the rectified DC electric power to said reproduction apparatus;~~

a key input unit for inputting a plurality of key signals to operate various functions of said reproduction apparatus;

~~a personal computer for downloading and storing audio data and various information data through Internet or PC communication according to a program contained therein;~~

a flash memory having a desired storage capacity for storing the audio data and various information data ~~from said personal computer;~~

a microphone for converting external input voice or sound into an electrical signal;

an FM radio receiver for receiving a desired band of FM radio signals through a receiving antenna;

a central processing unit for controlling the operations of said key input unit, ~~personal computer~~ and flash memory and performing an arithmetic operation for output data therefrom

according to programs contained therein to generate a plurality of control signals;

a liquid crystal display for providing a visual indication of output data from said central processing unit;

a digital signal processor for processing input/output digital signals to/from said central processing unit;

an audio codec for coding a digital audio signal from said digital signal processor into an analog audio signal, ~~transferring the coded analog audio signal to an audio input/output unit, decoding an analog audio signal from said audio input/output unit into a digital audio signal and transferring the decoded digital audio signal to said digital signal processor;~~

~~said an~~ audio input/output unit receiving an external analog audio signal, transferring it to said audio codec, receiving the analog audio signal from said audio codec and outputting it externally, wherein said audio codec transfers the coded analog audio signal to said audio input/output unit, decodes an analog audio signal from said audio input/output unit into a digital audio signal and transfers the decoded digital audio signal to said digital signal processor;

a radio frequency transmitter for modulating the coded analog audio signal from said audio codec into a radio frequency signal and remotely transmitting the modulated radio frequency signal through a transmitting antenna, wherein said key input includes a radio frequency transmission key for turning on the operation of said radio frequency transmitter; and

an equalizer for compensating for a distortion of output audio data from said reproduction apparatus.

2. (Currently amended): A portable data storage[[/]] and audio reproduction apparatus as set forth in Claim 1, wherein said key input unit further includes:

a recording key for storing audio data in said flash memory;

a play key for reproducing said audio data stored in said flash memory;

a stop key for stopping the operation of said reproduction apparatus;

a volume key for raising or lowering the level of output audio from said reproduction apparatus;

a start/end detection key for detecting start and end points of said audio data stored in said flash memory;

a menu key for displaying all the function of said reproduction apparatus;

an equalizer on/off key for turning on/off the operation of said equalizer;

a repeat key for repeating the reproduction of desired data in said reproduction apparatus;

and

an FM radio ON key for turning on the operation of said FM radio receiver; ~~and~~

~~a radio frequency transmission key for turning on the operation of said radio frequency transmitter.~~

3. (Currently amended): A portable data storage[[/]] and audio reproduction apparatus as set forth in Claim[[s]] 1, wherein said radio frequency transmitter includes:

a frequency setting/oscillating circuit for setting a desired frequency level and generating a signal oscillating at the set frequency level;

a transmission controller for outputting the coded analog audio signal from said audio codec synchronously with the oscillating signal from said frequency setting/oscillating circuit;

a primary amplifier for primarily amplifying the audio signal from said transmission controller to a first predetermined level;

an oscillator for oscillating an output signal from said primary amplifier;

a secondary amplifier for secondarily amplifying an output signal from said oscillator to a second predetermined level;

a tuner for tuning an output signal from said secondary amplifier to a desired frequency channel; and

a gain controller for controlling a transmission gain of said transmitting antenna.

4. (Currently amended): A portable data storage~~[[/]]~~ and audio reproduction apparatus as set forth in Claim 1, further comprising an audio system for receiving said analog audio signal from said audio input/output unit by wire, amplifying it and outputting the amplified audio signal externally through a speaker or receiving said radio frequency signal from said radio frequency transmitter by wireless through a receiving antenna, demodulating it into the original audio signal and outputting the demodulated audio signal externally through said speaker.

5. (Currently amended): A portable data storage~~[[/]]~~ and audio reproduction apparatus as set forth in ~~any one of Claim 1 to Claim 4~~, further comprising:

~~a first interface connected between said personal computer and central processing unit for~~

~~data interfacing therebetween; and~~

a ~~second~~-first interface connected between said audio input/output unit and audio system for data interfacing therebetween.

6. (Currently amended): A portable data storage~~[[/]]~~ and audio reproduction apparatus as set forth in Claim 1, wherein said power supply includes a general battery or rechargeable battery.

7. (Currently amended): A portable data storage~~[[/]]~~ and audio reproduction apparatus as set forth in ~~Claim 1 or~~ Claim 6, wherein said liquid display is of a 128x32-dot graphic type, said display including a plurality of icons for visually displaying a charged state of said battery, an operated state of said reproduction apparatus, a key input state of said key input unit, a name of an output tune and a list of audio data stored in said flash memory.

8. (Currently amended): A portable data storage~~[[/]]~~ and audio reproduction apparatus as set forth in Claim 1, wherein said flash memory is a random access memory or an electrically erasable and programmable read only memory which is connectable to a smart card.

9. (New): A portable data storage and audio reproduction apparatus as set forth in Claim 1, further comprising a personal computer for downloading and storing audio data and various information data through Internet or PC communication according to a program

contained therein.

10. (New): A portable data storage and audio reproduction apparatus as set forth in Claim 9, further comprising a second interface connected between said personal computer and central processing unit for data interfacing therebetween.